

***What Is Claimed Is:***

1. An isolated nucleic acid molecule comprising a polynucleotide having a nucleotide sequence at least 95% identical to a sequence selected from the group consisting of:

5 (a) a nucleotide sequence encoding a TRID polypeptide having the complete amino acid sequence in SEQ ID NO:2, or the complete amino acid sequence encoded by the cDNA clone contained in ATCC Deposit No. 97798;

10 (b) a nucleotide sequence encoding a mature TRID polypeptide having the amino acid sequence at positions 1-233 in SEQ ID NO:2, or the mature polypeptide encoded by the cDNA clone contained in ATCC Deposit No. 97798;

(c) a nucleotide sequence encoding the soluble extracellular domain of a TRID polypeptide having the amino acid sequence at positions 1-214 of SEQ ID NO:2, or the extracellular domain encoded by the cDNA clone contained in ATCC Deposit No. 97798; and

15 (d) a nucleotide sequence complementary to any of the nucleotide sequences in (a), (b) or (c) above.

20 2. The nucleic acid molecule of claim 1 wherein said polynucleotide has a complete nucleotide of SEQ ID NO:1.

3. The nucleic acid molecule of claim 1 wherein said polynucleotide has a nucleotide sequence which encodes a TRID polypeptide having the complete amino acid of SEQ ID NO:2.

25 4. The nucleic acid molecule of claim 1 wherein said polynucleotide has a nucleotide sequence encoding the mature form of a TRID polypeptide having an amino acid sequence from about 1 to about 233 in SEQ ID NO:2.

30 5. The nucleic acid molecule of claim 1 wherein said polynucleotide has a nucleotide sequence encoding the soluble extracellular domain of a TRID polypeptide having the amino acid sequence from about 1 to about 214 in SEQ ID NO:2.

6. An isolated nucleic acid molecule comprising a polynucleotide

having a nucleotide sequence at least 95% identical to a sequence selected from the group consisting of:

(a) a nucleotide sequence encoding a polypeptide comprising the amino acid sequence of residues m-233 of SEQ ID NO:2, where m is an integer in the range of -1 to 27;

(b) a nucleotide sequence encoding a polypeptide comprising the amino acid sequence of residues 1-x of SEQ ID NO:2, where x is an integer in the range of 123-233;

(c) a nucleotide sequence encoding a polypeptide having the amino acid sequence consisting of residues m-x of SEQ ID NO:2, m and x are defined in (a) and (b) above.

7. An isolated nucleic acid molecule comprising a polynucleotide having a nucleotide sequence at least 95% identical to a sequence selected from the group consisting of:

(a) a nucleotide sequence encoding a polypeptide consisting of a portion of a complete TRID amino acid sequence encoded by the cDNA clone contained in ATCC Deposit No. 97798 wherein said portion excludes from 1 to about 52 amino acids from the amino terminus of said complete amino acid sequence;

(b) a nucleotide sequence encoding a polypeptide consisting of a portion of a complete TRID amino acid sequence encoded by a cDNA clone contained in ATCC Deposit No. 97798 wherein said portion excludes from 1 to about 110 amino acids from the carboxy terminus of said complete amino acid sequence; and

(c) a nucleotide sequence encoding a polypeptide consisting of a portion of a complete TRID amino acid sequence encoded by the cDNA clone contained in ATCC Deposit No. 97798, wherein said portion includes a combination of any of the amino terminal and carboxy terminal deletions for the respective clones in (a) and (b), above.

8. The nucleic acid molecule of claim 1 wherein said polynucleotide has the complete nucleotide sequence of the cDNA clone contained in ATCC Deposit No. 97798.

9. The nucleic acid molecule of claim 1 wherein said polynucleotide has the nucleotide sequence encoding a TRID polypeptide having the complete amino acid sequence encoded by the cDNA clone contained in ATCC Deposit No. 97798.

10. The nucleic acid molecule of claim 1 wherein said polynucleotide has the nucleotide sequence encoding a mature TRID polypeptide having the amino acid sequence encoded by the cDNA clone contained in ATCC Deposit No. 97798.

11. An isolated nucleic acid molecule comprising a polynucleotide which hybridizes under stringent hybridization conditions to a polynucleotide having a nucleotide sequence identical to a nucleotide sequence in (a), (b), (c), or (d) of claim 1 wherein said polynucleotide which hybridizes does not hybridize under stringent hybridization conditions to a polynucleotide having a nucleotide sequence consisting of only A residues or of only T residues.

12. An isolated nucleic acid molecule comprising a polynucleotide which encodes the amino acid sequence of an epitope-bearing portion of a TRID polypeptide having an amino acid sequence in (a), (b), (c) or (d) of claim 1.

13. The isolated nucleic acid molecule of claim 12, which encodes an epitope-bearing portion of a TRID polypeptide comprising amino acid residues selected from the group consisting of: from about Gln-42 to about Glu-52 in Figure 1, from about His-58 to about Cys-66 in Figure 1, from about Pro-68 to about Thr-76 in Figure 1, from about Ser-79 to about Cys-85 in Figure 1, from about Cys-91 to about Thr-102 in Figure 1, from about Gln-110 to about Pro-122 in Figure 1, from about Arg-126 to about Val-136 in Figure 1, and from about Thr-142 to about Glu-148 in Figure 1.

14. A method for making a recombinant vector comprising inserting an isolated nucleic acid molecule of claim 1 into a vector.

15. A recombinant vector produced by the method of claim 14.

16. A method of making a recombinant host cell comprising introducing the recombinant vector of claim 15 into a host cell.

17. A recombinant host cell produced by the method of claim 16.

18. A recombinant method for producing a TRID polypeptide, comprising culturing the recombinant host cell of claim 17 under conditions such that said polypeptide is expressed and recovering said polypeptide.

19. An isolated TRID polypeptide comprising an amino acid sequence at least 95% identical to a sequence selected from the group consisting of:

(a) the amino acid sequence of a full-length TRID polypeptide having the complete amino acid sequence shown in SEQ ID NO:2, or as encoded by the cDNA clone contained in ATCC Deposit No. 97798;

(b) the amino acid sequence of a mature TRID polypeptide having the amino acid sequence at positions 1-233 in SEQ ID NO:2, or as encoded by the cDNA clone contained in ATCC Deposit No. 97798; or

(c) the amino acid sequence of a soluble extracellular domain of a TRID polypeptide having the amino acid sequence at positions 1 to 216 in SEQ ID NO:2, or as encoded by the cDNA clone contained in ATCC Deposit No. 97798.

20. An isolated polypeptide comprising an epitope-bearing portion of the TNFR protein, wherein said portion is selected from the group consisting of a polypeptide comprising amino acid residues: from about Gln-42 to about Glu-52 in Figure 1, from about His-58 to about Cys-66 in Figure 1, from about Pro-68 to about Thr-76 in Figure 1, from about Ser-79 to about Cys-85 in Figure 1, from about Cys-91 to about Thr-102 in Figure 1, from about Gln-110 to about Pro-122 in Figure 1, from about Arg-126 to about Val-136 in Figure 1, and from about Thr-142 to about Glu-148 in Figure 1.

21. An isolated antibody that binds specifically to a TRID polypeptide of claim 19.

22. A method for treating a patient in need of TRID polypeptide activity comprising administering to said patient a therapeutically effective amount of the polypeptide of claim 19.

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